

| | Current XRef | Retrieval Classif | Inventor |
|----------|---|--------------------------|----------------------------|
| 1 | | | Ibsen, Per Eld et al. |
| 2 | 385/37; 398/87 | | Rose, Bjarke et al. |
| 3 | 356/450; 398/1; 398/141; 398/201; 398/212; 398/87 | | Fishman; Ilya M. |
| 4 | 369/112.27; 369/112.29; 369/44.23; 369/44.28; 369/44.29 | | Bischel; William K. et al. |

| | Document ID | Kind Codes | Source | Issue Date | Pages |
|---|----------------------|-------------------|---------------|-------------------|--------------|
| 1 | US 20030067645 A1 | | US- PGPUB | 20030410 | 46 |
| 2 | US 20020154855 A1 | | US- PGPUB | 20021024 | 44 |
| 3 | US 6111679 A | | USPAT | 20000829 | 14 |
| 4 | US 5835458 A | | USPAT | 19981110 | 110 |

| | Title |
|---|--|
| 1 | Wavelength division multiplexed device |
| 2 | Wavelength division multiplexed device |
| 3 | Method and system for optical multichannel transmission using coherence division multiplexing with optical filtering |
| 4 | Solid state optical data reader using an electric field for routing control |

| | U | 1 | Document ID | Issue Date | Pages |
|---|----------|----------|----------------------|-------------------|--------------|
| 1 | X | X | US 20030067645 A1 | 20030410 | 46 |
| 2 | X | | US 20020154855 A1 | 20021024 | 44 |
| 3 | X | | US 6111679 A | 20000829 | 14 |
| 4 | X | | US 5835458 A | 19981110 | 110 |

| | Title | Current OR | Current XRef |
|---|--|-------------------|---|
| 1 | Wavelength division multiplexed device | 398/79 | |
| 2 | Wavelength division multiplexed device | 385/24 | 385/37; 398/87 |
| 3 | Method and system for optical multichannel transmission using coherence division multiplexing with optical filtering | 398/82 | 356/450; 398/1; 398/141; 398/201; 398/212; 398/87 |
| 4 | Solid state optical data reader using an electric field for routing control | 369/44.12 | 369/112.27; 369/112.29; 369/44.23; 369/44.28; 369/44.29 |

| | Retrieval Classif | Inventor | S | C | P | 2 | 3 | 4 | 5 |
|----------|------------------------------|-------------------------------|----------|----------|----------|----------|----------|----------|----------|
| 1 | | Ibsen, Per Eld et al. | | | | | | | |
| 2 | | Rose, Bjarke et al. | | | | | | | |
| 3 | | Fishman; Ilya M. | | | | | | | |
| 4 | | Bischel; William K. et al. | | | | | | | |

| | Image Doc. Displayed | PT |
|---|-------------------------|----|
| 1 | US 20030067645 | |
| 2 | US 20020154855 | |
| 3 | US 6111679 | |
| 4 | US 5835458 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|---|------|-----|------|--|-------------------------------------|------------------|
| 1 | BRS | L1 | 98 | <pre> (((grating\$1 near7 (glass transpaernt transmissive transmisiive silicon)) ((normal side section front back enter\$4) near4 grating\$1)) and (((grating near1 diffract\$4)) and (grating near12 (reflect\$5 mirror\$1) same beam\$1))) and ((DWDM WDM) same grating\$1) and (grating\$1 same (fiber\$1 waveguide\$1)) and integrat\$4) not (((grating same diffract\$4 same integrat\$4)) and (grating near12 (reflect\$5 mirror\$1) same beam\$1)) and ((DWDM WDM) same grating\$1) and (grating\$1 same (fiber\$1 waveguide\$1))) </pre> | US- PGPUB; USPAT; EPO; JPO; DERWENT | 2005/06/07 17:20 |
| 2 | BRS | L2 | 98 | <pre> (((grating\$1 near7 (glass transpaernt transmissive transmisiive silicon)) ((normal side section front back enter\$4) near4 grating\$1)) and (((grating near1 diffract\$4)) and (grating near12 (reflect\$5 mirror\$1) same beam\$1))) and ((DWDM WDM) same grating\$1) and (grating\$1 same (fiber\$1 waveguide\$1)) and integrat\$4) not (((grating same diffract\$4 same integrat\$4)) and (grating near12 (reflect\$5 mirror\$1) same beam\$1)) and ((DWDM WDM) same grating\$1) and (grating\$1 same (fiber\$1 waveguide\$1))) </pre> | US- PGPUB; USPAT; EPO; JPO; DERWENT | 2005/06/07 17:22 |

| | Comments | Error Definition | Errors |
|---|----------|------------------|--------|
| 1 | | | |
| 2 | | | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|---|------|-----|------|---------------|------------------------|---------------------|
| 3 | BRS | L3 | 4 | 2 and mold\$5 | US- PGPUB; USPAT | 2005/06/07 17:24 |

| | Comments | Error Definition | Errors |
|---|----------|------------------|--------|
| 3 | | | |

| | Type | Hits | Search Text |
|----|------|-------|---|
| 1 | BRS | 0 | '10/028419' |
| 2 | BRS | 0 | '10028419' |
| 3 | BRS | 0 | "10028419" |
| 4 | BRS | 0 | "10/028419" |
| 5 | BRS | 1514 | grating same diffract\$4 same integrat\$4 |
| 6 | BRS | 30190 | "385"/\$.ccls. |
| 7 | BRS | 412 | (grating same diffract\$4 same integrat\$4) and "385"/\$.ccls. |
| 8 | BRS | 6485 | grating near12 (reflect\$5 mirror\$1) same beam\$1 |
| 9 | BRS | 95664 | (reflect\$5 mirror\$1) near9 (film\$3 coat\$4) |
| 10 | BRS | 154 | ((grating same diffract\$4 same integrat\$4) and "385"/\$.ccls.) and (grating near12 (reflect\$5 mirror\$1) same beam\$1) |
| 11 | BRS | 49 | ((grating same diffract\$4 same integrat\$4) and "385"/\$.ccls.) and (grating near12 (reflect\$5 mirror\$1) same beam\$1)) and ((reflect\$5 mirror\$1) near9 (film\$3 coat\$4)) |
| 12 | BRS | 4 | ((grating same diffract\$4 same integrat\$4)) and (grating near12 (reflect\$5 mirror\$1) same beam\$1)) and ((reflect\$5 mirror\$1) near9 (film\$3 coat\$4)) |
| 13 | BRS | 49 | ((grating same diffract\$4 same integrat\$4) and "385"/\$.ccls.) and (grating near12 (reflect\$5 mirror\$1) same beam\$1)) and ((reflect\$5 mirror\$1) near9 (film\$3 coat\$4)) |
| 14 | BRS | 609 | ((grating same diffract\$4 same integrat\$4)) and (grating near12 (reflect\$5 mirror\$1) same beam\$1) |

| | DBs | Time Stamp | Comments | Error Definition |
|----|-------------------|-------------------|-----------------|-------------------------|
| 1 | US-PGPUB; USPAT | 2005/06/07 10:53 | | |
| 2 | US-PGPUB; USPAT | 2004/06/16 19:29 | | |
| 3 | US-PGPUB; USPAT | 2004/06/16 19:29 | | |
| 4 | US-PGPUB; USPAT | 2004/06/16 19:29 | | |
| 5 | US-PGPUB; USPAT | 2004/06/17 11:20 | | |
| 6 | US-PGPUB; USPAT | 2004/06/17 11:20 | | |
| 7 | US-PGPUB; USPAT | 2004/06/17 11:21 | | |
| 8 | US-PGPUB; USPAT | 2004/06/17 11:23 | | |
| 9 | US-PGPUB; USPAT | 2004/06/17 12:03 | | |
| 10 | US-PGPUB; USPAT | 2004/06/17 15:45 | | |
| 11 | US-PGPUB; USPAT | 2004/06/17 12:13 | | |
| 12 | EPO; JPO; DERWENT | 2004/06/17 12:10 | | |
| 13 | US-PGPUB; USPAT | 2004/06/17 12:14 | | |
| 14 | US-PGPUB; USPAT | 2004/06/17 13:45 | | |

| | Errors | Ref # |
|----|--------|-------|
| 1 | | S26 |
| 2 | | S27 |
| 3 | | S28 |
| 4 | | S29 |
| 5 | | S30 |
| 6 | | S31 |
| 7 | | S32 |
| 8 | | S33 |
| 9 | | S34 |
| 10 | | S35 |
| 11 | | S36 |
| 12 | | S37 |
| 13 | | S38 |
| 14 | | S39 |

| | DBs | Time Stamp | Comments | Error Definition |
|----|-------------------|-------------------|-----------------|-------------------------|
| 15 | US-PGPUB; USPAT | 2004/06/17 15:49 | | |
| 16 | US-PGPUB; USPAT | 2004/06/17 18:20 | | |
| 17 | EPO; JPO; DERWENT | 2004/06/17 15:39 | | |
| 18 | US-PGPUB; USPAT | 2004/06/17 15:43 | | |
| 19 | US-PGPUB; USPAT | 2004/06/17 15:45 | | |
| 20 | US-PGPUB; USPAT | 2004/06/17 15:47 | | |
| 21 | US-PGPUB; USPAT | 2004/06/17 15:47 | | |
| 22 | US-PGPUB; USPAT | 2004/06/17 15:47 | | |

| | Errors | Ref # |
|----|--------|-------|
| 15 | | S40 |
| 16 | | S41 |
| 17 | | S42 |
| 18 | | S43 |
| 19 | | S44 |
| 20 | | S45 |
| 21 | | S46 |
| 22 | | S47 |

| | DBs | Time Stamp | Comments | Error Definition |
|----|-----------------|-------------------|-----------------|-------------------------|
| 23 | US-PGPUB; USPAT | 2004/06/17 15:47 | | |
| 24 | US-PGPUB; USPAT | 2004/06/17 15:49 | | |
| 25 | US-PGPUB; USPAT | 2004/06/17 15:50 | | |
| 26 | US-PGPUB; USPAT | 2005/06/07 17:20 | | |
| 27 | US-PGPUB; USPAT | 2004/06/17 18:25 | | |
| 28 | US-PGPUB; USPAT | 2004/06/17 18:26 | | |

| | Errors | Ref # |
|----|--------|-------|
| 23 | | S48 |
| 24 | | S49 |
| 25 | | S50 |
| 26 | | S51 |
| 27 | | S52 |
| 28 | | S53 |

| | DBs | Time Stamp | Comments | Error Definition |
|----|-----------------|-------------------|-----------------|-------------------------|
| 29 | US-PGPUB; USPAT | 2004/06/17 19:22 | | |
| 30 | US-PGPUB; USPAT | 2004/06/17 19:23 | | |
| 31 | US-PGPUB; USPAT | 2004/06/21 18:24 | | |
| 32 | US-PGPUB; USPAT | 2004/06/21 18:27 | | |
| 33 | US-PGPUB; USPAT | 2004/06/21 18:32 | | |
| 34 | US-PGPUB; USPAT | 2004/06/21 18:30 | | |
| 35 | US-PGPUB; USPAT | 2004/06/21 18:33 | | |
| 36 | US-PGPUB; USPAT | 2004/06/21 18:35 | | |
| 37 | US-PGPUB; USPAT | 2004/06/21 18:36 | | |
| 38 | US-PGPUB; USPAT | 2004/12/14 16:53 | | |
| 39 | US-PGPUB; USPAT | 2004/06/22 13:21 | | |
| 40 | US-PGPUB; USPAT | 2004/06/22 13:27 | | |
| 41 | US-PGPUB; USPAT | 2004/06/22 15:04 | | |
| 42 | US-PGPUB; USPAT | 2004/06/22 15:05 | | |
| 43 | US-PGPUB; USPAT | 2004/06/22 15:06 | | |

| | Errors | Ref # |
|----|--------|-------|
| 29 | | S54 |
| 30 | | S55 |
| 31 | | S56 |
| 32 | | S57 |
| 33 | | S58 |
| 34 | | S59 |
| 35 | | S60 |
| 36 | | S61 |
| 37 | | S62 |
| 38 | | S1 |
| 39 | | S2 |
| 40 | | S3 |
| 41 | | S4 |
| 42 | | S5 |
| 43 | | S6 |

| | Type | Hits | Search Text |
|----|------|------|---|
| 44 | BRS | 1 | S1 and (film\$3 layer\$1) |
| 45 | BRS | 1 | S1 and (film\$3 coat\$4) |
| 46 | BRS | 1 | '10/050572' |
| 47 | BRS | 0 | S9 and ((therm\$5 heat\$5) same oxi\$6) |
| 48 | BRS | 1 | S9 and (therm\$5 heat\$5 oxi\$6) |
| 49 | BRS | 0 | "200201226651" |
| 50 | BRS | 0 | "2002/01226651" |
| 51 | BRS | 0 | "2002/0122651" |
| 52 | BRS | 1 | "20020122651" |
| 53 | BRS | 1 | "6583934".pn. |
| 54 | BRS | 1 | "6583934".pn. |
| 55 | BRS | 1 | S68 and (lens\$2 focus\$4) |
| 56 | BRS | 1 | "6583934".pn. |
| 57 | BRS | 1 | S71 and align\$5 |
| 58 | BRS | 1 | '10/028419' |
| 59 | BRS | 1 | S73 and align\$5 |

| | DBs | Time Stamp | Comments | Error Definition |
|----|-----------------|-------------------|-----------------|-------------------------|
| 44 | US-PGPUB; USPAT | 2004/06/22 15:07 | | |
| 45 | US-PGPUB; USPAT | 2004/06/22 17:02 | | |
| 46 | US-PGPUB; USPAT | 2004/06/22 17:02 | | |
| 47 | US-PGPUB; USPAT | 2004/06/22 17:08 | | |
| 48 | US-PGPUB; USPAT | 2004/06/22 17:06 | | |
| 49 | US-PGPUB; USPAT | 2004/06/22 17:07 | | |
| 50 | US-PGPUB; USPAT | 2004/06/22 17:07 | | |
| 51 | US-PGPUB; USPAT | 2004/06/22 17:07 | | |
| 52 | US-PGPUB; USPAT | 2004/06/22 17:07 | | |
| 53 | US-PGPUB; USPAT | 2004/12/15 10:48 | | |
| 54 | US-PGPUB; USPAT | 2005/06/07 11:39 | | |
| 55 | US-PGPUB; USPAT | 2004/12/15 14:15 | | |
| 56 | US-PGPUB; USPAT | 2004/12/15 14:16 | | |
| 57 | US-PGPUB; USPAT | 2004/12/15 14:18 | | |
| 58 | US-PGPUB; USPAT | 2004/12/15 14:18 | | |
| 59 | US-PGPUB; USPAT | 2004/12/15 14:18 | | |

| | Errors | Ref # |
|----|--------|-------|
| 44 | | S7 |
| 45 | | S8 |
| 46 | | S9 |
| 47 | | S10 |
| 48 | | S11 |
| 49 | | S12 |
| 50 | | S13 |
| 51 | | S14 |
| 52 | | S15 |
| 53 | | S67 |
| 54 | | S68 |
| 55 | | S69 |
| 56 | | S71 |
| 57 | | S72 |
| 58 | | S73 |
| 59 | | S74 |

| | Type | Hits | Search Text |
|----|------|------|---|
| 60 | BRS | 90 | ((((grating\$1 near7 (glass transpaernt transmissive transmisiive silicon)) ((normal side section front back enter\$4) near4 grating\$1)) and (((grating near1 diffract\$4)) and (grating near12 (reflect\$5 mirror\$1) same beam\$1))) and ((DWDM WDM) same grating\$1) and (grating\$1 same (fiber\$1 waveguide\$1)) and integrat\$4) not (((((grating same diffract\$4 same integrat\$4)) and (grating near12 (reflect\$5 mirror\$1) same beam\$1)) and ((DWDM WDM) same grating\$1) and (grating\$1 same (fiber\$1 waveguide\$1)))) |
| 61 | BRS | 1 | S76 AND (ALIGN\$5 MOLD\$4) |
| 62 | BRS | 98 | ((((grating\$1 near7 (glass transpaernt transmissive transmisiive silicon)) ((normal side section front back enter\$4) near4 grating\$1)) and (((grating near1 diffract\$4)) and (grating near12 (reflect\$5 mirror\$1) same beam\$1))) and ((DWDM WDM) same grating\$1) and (grating\$1 same (fiber\$1 waveguide\$1)) and integrat\$4) not (((((grating same diffract\$4 same integrat\$4)) and (grating near12 (reflect\$5 mirror\$1) same beam\$1)) and ((DWDM WDM) same grating\$1) and (grating\$1 same (fiber\$1 waveguide\$1)))) |
| 63 | BRS | 4 | S78 and mold\$4 |
| 64 | BRS | 0 | S76 and (mems micro\$5 microelect\$6) |
| 65 | BRS | 1 | '10/028419' |
| 66 | BRS | 71 | S78 and total |
| 67 | BRS | 13 | S78 and plastic\$3 |

| | DBs | Time Stamp | Comments | Error Definition |
|----|---------------------------------------|-------------------|-----------------|-------------------------|
| 60 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2004/12/15 16:28 | | |
| 61 | US-PGPUB; USPAT | 2005/06/07 10:53 | | |
| 62 | US-PGPUB; USPAT | 2005/06/07 11:03 | | |
| 63 | US-PGPUB; USPAT | 2005/06/07 11:03 | | |
| 64 | US-PGPUB; USPAT | 2005/06/07 11:18 | | |
| 65 | US-PGPUB; USPAT | 2005/06/07 11:19 | | |
| 66 | US-PGPUB; USPAT | 2005/06/07 11:19 | | |
| 67 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/06/07 11:29 | | |

| | Errors | Ref # |
|----|--------|-------|
| 60 | | S75 |
| 61 | | S77 |
| 62 | | S78 |
| 63 | | S79 |
| 64 | | S80 |
| 65 | | S76 |
| 66 | | S81 |
| 67 | | S82 |

| | Type | Hits | Search Text |
|----|------|------|--|
| 68 | BRS | 13 | S78 and plastic\$3 |
| 69 | BRS | 1 | "6583934".pn. |
| 70 | BRS | 1 | S84 and (mass\$3 alignm\$4 product\$4) |

| | DBs | Time Stamp | Comments | Error Definition |
|----|---------------------------------------|-------------------|-----------------|-------------------------|
| 68 | US-PGPUB; USPAT; EPO; JPO; DERWENT | 2005/06/07 11:29 | | |
| 69 | US-PGPUB; USPAT | 2005/06/07 11:39 | | |
| 70 | US-PGPUB; USPAT | 2005/06/07 11:39 | | |

| | Errors | Ref # |
|----|---------------|------------------|
| 68 | | S83 |
| 69 | | S84 |
| 70 | | S85 |